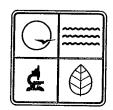
STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION



PERMIT BOOK

PERMIT TO CONSTRUCT

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

Permit Number: 02 2 0 0 6 - 0 0 9

Project Number:

2005-11-008

167-0022

Owner:

T & M Stone Quarry, LLC

Owner's Address:

530 E. 460th Rd., Fairplay, MO 65649

Installation Name:

T & M Stone Quarry, LLC

Installation Address:

530 E. 460th Rd., Fairplay, MO 65649

Location Information:

Polk County, S23, T33N, R24W

Application for Authority to Construct was made for:

The modification of an existing rock-crushing plant. The rock-crushing plant will move the primary crusher into the quarry pit and add two conveyor belts to transport rocks to the rest of the screening and crushing equipment. Best Management Practices will be used to control fugitive emissions from haul roads and storage piles. The rock-crushing plant has a maximum hourly design rate (MHDR) of 500 tons per hour (tph). This review was conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, Construction Permits Required.

Standard Conditions (on reverse) and Special Conditions (listed as attachments starting of applicable to this permit.	n page	2)	are
☐ Standard Conditions (on reverse) are applicable to this permit.			• .

FEB 1 6 2006

DEPARTMENT OF NATURAL RESOURCES

MO 780-1204 (1-03)

EFFECTIVE DATE

STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Air Pollution Control Program if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant source(s). The information must be made available not more than 60 days but at least 30 days in advance of this date. Also, you must notify the Department of Natural Resources Regional Office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

A copy of this permit and permit review shall be kept at the installation address and shall be made available to Department of Natural Resources' personnel upon request.

You may appeal this permit or any of the listed Special Conditions as provided in RSMo 643.075. If you choose to appeal, the Air Pollution Control Program must receive your written declaration within 30 days of receipt of this permit.

If you choose not to appeal, this certificate, the project review, your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant source(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Department of Natural Resources has established the Outreach and Assistance Center to help in completing future applications or fielding complaints about the permitting process. You are invited to contact them at 1-800-361-4827 or (573) 526-6627, or in writing addressed to Outreach and Assistance Center, P.O. Box 176, Jefferson City, MO 65102-0176.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit at (573) 751-4817. If you prefer to write, please address your correspondence to the Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, attention Construction Permit Unit.

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Permit No.	
Project No.	2005-11008

SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075); by the Missouri Rules listed in Title 10, Division 10 of the Codes of State Regulations (specifically 10 CSR 10-6.060); by 10 CSR 10-6.060 paragraph (12)(A)10. "Conditions required by permitting authority"; by 10 CSR 10-6.010 "Ambient Air Quality Standards" and 10 CSR 10-6.060 subsections (5)(D) and (6)(A); and by control measures requested by the applicant, in their permit application, to reduce the amount of air pollutants being emitted, in accordance with 10 CSR 10-6.060 paragraph (6)(E)3. Furthermore, one or more of the Subparts of 40 CFR Part 60, New Source Performance Standards (NSPS), applies to this installation.

- 1. Best Management Practices
 - T & M Stone Quarry, LLC shall control fugitive emissions from all of the haul roads and stockpiles at this site by performing *Best Management Practices*, which include the usage of paving, chemical dust suppressants, or documented watering. These practices are defined in Attachment AA.
- 2. National Ambient Air Quality Standards (NAAQS) Limitation for Particulate Matter Less Than Ten Microns in Diameter (PM₁₀)
 - A. The operator(s) for T & M Stone Quarry, LLC's rock-crushing plant (167-0022) shall ensure, while operating at this site, that the ambient impact of PM_{10} at or beyond the nearest property boundary does not exceed 150 μ g/m³ in any 24-hour period, in accordance with the Federal NAAQS requirements (40 CFR 50.6).
 - B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed. Attachment A, *Daily Ambient PM*₁₀ *Impact Tracking Record*, or other equivalent form(s), will be used for this purpose.
- 3. Annual Emission Limit of Particulate Matter Less Than Ten Microns in Diameter (PM₁₀)
 - A. The operator(s) shall ensure that T & M Stone Quarry, LLC's rock-crushing plant (167-0022) emits less than 50 tons of PM₁₀ into the atmosphere in any 12-month period.
 - B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed and PM₁₀. Attachment B, *Monthly PM₁₀ Emissions Tracking Record*, or other equivalent form(s), will be used for this purpose.
- 4. Usage of Wet Suppression Control System on Equipment
 - A. T & M Stone Quarry, LLC's rock-crushing plant (167-0022) shall install and operate wet spray devices to restrict the emission of particulate matter. These wet spray devices must be used to control fugitive emissions whenever these units are in operation. The wet spray devices shall be installed on the following units:
 - 1) All Crushers
 - 2) All Conveyors/Stackers
 - 3) All Screens
 - B. Watering may be suspended during periods of freezing conditions, when use of the wet spray devices may damage the equipment. During these conditions, the operator(s) shall adjust the production rate to control fugitive emissions from these units. The operator shall record a brief description of such events in a daily log.
- 5. Performance Testing for New Source Performance Standards (NSPS)
 - A. T & M Stone Quarry, LLC's rock-crushing plant (167-0022) shall submit the enclosed testing plan to the Enforcement section of the Air Pollution Control Program for all equipment applicable to NSPS Subpart "OOO". T & M Stone Quarry, LLC shall contact the Enforcement section to obtain all requirements for testing, and the plan must be submitted to the Enforcement section at least 30 days prior to the proposed test date.
 - B. Testing must be performed no later than 60 days after achieving the maximum production rate of the process, and in any case no later than 180 days after initial startup. The performance test results shall be submitted to the Enforcement section no later than 30 days after completion of any required testing.

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Permit No.	
Project No.	2005-11008

SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

- 6. Prohibition Against Concurrent Operations Without Further APCP Review
 The rock-crushing plant (167-0022) is prohibited from operating whenever any other plant(s) are located at this site.
- 7. Restriction on Process Configuration of Primary Emission Point(s)
 The maximum hourly design rate of the plant is equal to the sum of the design rate(s) of the primary
 emission point(s). T & M Stone Quarry, LLC's rock-crushing plant (167-0022) has designated the following
 unit(s) as the primary emission point(s) of the rock-crushing plant: primary crusher (EP-1). Bypassing the
 primary emission point(s) for processing is prohibited.
- 8. Restriction on Minimum Distance to Nearest Property Boundary
 The primary emission point of the rock-crushing plant, which is the primary crusher (EP-1), shall be located at least 750 feet from the nearest property boundary whenever it is operating at this site.
- Record Keeping Requirement
 The operator(s) shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request.
- Reporting Requirement
 The operator(s) shall report to the Air Pollution Control Program (APCP) Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedances of the limitations imposed by this permit.
- 11. Superseding Condition
 The conditions of this permit supersede all special conditions found in the previously issued construction permit(s) (0695-036, 042002-008) from the Air Pollution Control Program.

TECHNICAL REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT

PROJECT DESCRIPTION

The installation will move the primary crusher into the quarry pit and add two conveyors to transport the crushed rocks to the rest of the processing equipment. Once moved, the primary crusher will be located approximately 1000 feet from the nearest property boundary. The rest of the equipment will stay in their current positions and be located 750 feet from the property boundary. Ambient impact will still be evaluated using 750 feet since most of the emissions will be released by the equipment located from that distance. The installation is powered with a diesel engine that has a maximum hourly design rate of 8.7 gallons of fuel/hr. The emission points are listed in the attached spreadsheet summary. This installation is not on the List of Named Installations [10 CSR 10-6.020(3)(B), Table 2]. The installation is located in Polk County, an attainment area for all criteria air pollutants.

Table 1. Other Permits Issued for Site 167-0022

Permit Number	Completed	Description
0695-036	04/21/1995	Section 5 permit
042002-008	04/10/2002	Section 5 permit

EMISSIONS EVALUATION

Criteria air pollutants will be emitted from this operation. The main air pollutant of concern is PM₁₀. The potential emissions were calculated from the maximum hourly design rate (MHDR) of the equipment, appropriate emission factors, control device efficiencies, and the limiting operating hours at MHDR. The sources of the emission factors and control efficiencies are listed in the section "Permit Documents". Based on the conditioned potential emissions, the operation is considered a minor source under 10 CSR 10-6.060.

Table 2: Emissions Summary (tons per year)

Air Pollutant	Regulatory De Minimis Levels	Existing Potential Emissions	Existing Actual Emissions (2004 EIQ)	Potential Emissions of the Application	*New Installation Conditioned Potential	Emission Factor (lb/ton)
PM ₁₀	15.0	92.22	8.25	92.22	<50	0.0421
SOx	40.0	1.51	0.4	1.51	1.33	N/A
NOx	40.0	23.02	6.04	23.02	20.27	N/A
VOC	40.0	1.88	0.49	1.88	1.65	N/A
CO	100.0	4.96	1.3	4.96	4.37	N/A
HAPs	10.0/25.0	0.02	N/A	0.02	0.02	N/A

Note: N/A = Not Applicable

AMBIENT AIR QUALITY IMPACT ANALYSIS

Screening tools were used to evaluate the ambient air impact of the hourly emissions from this operation. The ambient impact was evaluated at a distance of 750 feet to the nearest property boundary. The ambient impact at this site shall not exceed the National Ambient Air Quality Standard (NAAQS) of $150 \, \mu g/m^3$ of PM_{10} at or beyond the nearest property boundary in any single 24-hour period. The screening tools were used to develop an ambient impact factor for the rock-crushing plant. This ambient impact factor is incorporated into the daily record keeping table, Attachment A.

For sources agreeing to use Best Management Practices (BMPs), as defined in Attachment AA, haul roads and stockpiles are not modeled with screening tools. Instead, they are addressed as a background level of 20 $\mu g/m^3$ of PM₁₀. To ensure conformity with NAAQS, the remaining process emissions are limited to an impact of less than 130 $\mu g/m^3$ of PM₁₀ at or beyond the nearest property boundary.

^{*} Conditioned potential based on daily production limit from ambient impact analysis. Other pollutants proportionately reduced.

Table 3: Ambient Air Quality Impact Analysis of PM₁₀, 24-Hour Averaging Time

Operation	Ambient Impact Factor (µg/m³ton)	Modeled Impact (μg/m³)	*Background (μg/m³)	NAAQS (μg/m³)	Daily Production Limit (tons)
1. Solitary	0.0123	130.00	20.00	150.00	10567

^{*}Background PM₁₀ Level (µg/m3) is from haul roads and storage piles.

APPLICABLE REQUIREMENTS

The owner is subject to compliance with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements.

- Submission of Emission Data, Emission Fees and Process Information, 10 CSR 10-6.110
- Operating Permits, 10 CSR 10-6.065
- An Operating Permit application is required for this installation within 30 days of equipment startup
- Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin, 10 CSR 10-6.170
- Restriction of Emission of Visible Air Contaminants, 10 CSR 10-6.220
- Restriction of Emission of Odors, 10 CSR 10-3.090
- Restriction of Emission of Particulate Matter From Industrial Processes, 10 CSR 10-6.400
- 40 CFR Part 60 Subpart "OOO", Standards of Performance for Nonmetallic Mineral Processing Plants, of the New Source Performance Standards (NSPS)
- The National Emission Standards for Hazardous Air Pollutants (NESHAPs) and the currently promulgated Maximum Achievable Control Technology (MACT) regulations do not apply to the proposed equipment.

STAFF RECOMMENDATION

	rdance with Section (6), Missouri State Rule 10 CSR 10-6.060, this permit be granted with special conditions.
Construction Formite Required, Frecomment	tino pormit de grantea with opeolal conditions.
Chia-Wei Young	 Date

PERMIT DOCUMENTS

Environmental Engineer

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, designating T & M Stone Quarry, LLC as the owner and operator of the installation.
- Environmental Protection Agency (EPA) AP-42, Compilation of Air Pollutant Emission Factors; Volume I, Stationary Point and Area Sources, Fifth Edition.
- Noves Data Corp. book, Orlemann, et al. 1983. Fugitive Dust Control.
- EPA Factor Information Retrieval (FIRE) Version 6.21.
- · Spreadsheet calculations of potential-to-emit and ambient impact.
- Southwest Regional Office Site Survey.
- Best Management Practices

Attachment A: Daily Ambient PM₁₀ Impact Tracking Record T & M Stone Quarry, LLC, 167-0022 – Rock-Crushing Plant

Project Number: 2005-11-008

County, CSTR: Polk County (S23, T33N, R24W)

Primary Unit Size: 500 tph

Distance to Nearest Property Boundary: 750 feet

This sheet covers the period from ______ to _____ to _____ (Month, Day, Year) (Copy this sheet as needed.)

	T & M Stone Quarry, LLC 167-0022 Project # 2005-11-008							
		Ambient Impact Factor		² Back-ground PM ₁₀ Level				
Date	Daily Production (tons)	(µg/m ³ ton)	¹ Daily PM ₁₀ Impact (µg/m ³)	(µg/m³)	³ TOTAL PM ₁₀ Level (µg/m ³)			
		0.0123		20.00				
		0.0123		20.00				
		0.0123		20.00				
		0.0123		20.00				
		0.0123		20.00				
		0.0123		20.00				
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		0.0123		20.00				
		0.0123		20.00				
		0.0123		20.00				
Note 4. The Delle DM. Lee		0.0123		20.00				

Note 1: The Daily PM₁₀ Impact (µg/m3) for each plant is calculated by multiplying the Daily Production (tons) by the matching Ambient Impact Factor.

Note 2: Background PM₁₀ Level (µg/m³) is from haul roads and storage piles.

Note 3: The TOTAL PM₁₀ Level (µg/m3) is calculated by summing the Daily PM₁₀ Ambient Impact(s) and the Background PM₁₀ Level. A TOTAL PM₁₀ Level of less than 150 µg/m3 in any 24-hour period indicates compliance.

Attachment B: Monthly PM₁₀ Emissions Tracking Record T & M Stone Quarry, LLC, 167-0022 – Rock-Crushing Plant

Project Number: 2005-11-008

County, CSTR: Polk County (S23, T33N, R24W)

Primary Unit Size: 500 tph

Distance to Nearest Property Boundary: 750 feet

This sheet covers the period from ______ to _____ to _____ (Month, Day, Year) (Copy this sheet as needed.)

	Monthly Production	Composite PM ₁₀ Emission Factor	¹ Monthly PM ₁₀ Emissions	² Monthly PM ₁₀ Emissions	312-Month PM ₁₀ Emissions
Month	(tons)	(lbs/ton)	(lbs)	(tons)	(tons/year)
		0.0421			
		0.0421			
		0.0421			
		0.0421			
		0.0421			
		0.0421			
		0.0421			
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		0.0421			
		0.0421			
		0.0421			
Niger 4 The Managhile	F::	0.0421	a Mandhir Deadras Co. 7	ana) haatha Camara	Emission Factor (lbs/tor

Note 1: The Monthly Emissions (lbs) are calculated by multiplying the Monthly Production (tons) by the Composite Emission Factor (lbs/ton).

Note 2: The Monthly Emissions (tons) are calculated by dividing the Monthly Emissions (lbs) by 2,000.

Note 3: The 12-Month Emissions (tons/year) are a rolling total calculated by adding the Month's Emissions (tons) to the Monthly Emissions (tons) of the previous eleven (11) months. A total of less than **50** tons in any consecutive 12-month period indicates complianc

Attachment AA: Best Management Practices (BMPs)- Construction Industry Fugitive Emissions

Construction Industry Sites covered by the Interim Relief Policy shall maintain Best Management Control Practices (BMPs) for fugitive emission areas at their installations when in operation. Options for BMPs are at least one of the following:

For Haul Roads:

Pavement of Road Surfaces –

- A. The operator(s) may pave all or any portion of the haul roads with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve "Control of Fugitive Emissions" while the plant is operating.
- B. Maintenance and/or repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
- C. The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the haul road(s) as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. Usage of Chemical Dust Suppressants –

- A. The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the unpaved portions of the haul roads. The suppressant will be applied in accordance with the manufacturer's suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
- B. The quantities of the chemical dust suppressant shall be applied, re-applied and/or maintained sufficient to achieve control of fugitive emissions from these areas while the plant is operating.
- C. The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

3. <u>Usage of Documented Watering</u> –

- A. The operator(s) shall control the fugitive emissions from all the unpaved portions of the haul roads at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of haul roads as necessary to achieve control of fugitive emissions from these areas while the plant is operating. For example, the operator(s) shall calculate the total square feet of unpaved vehicle activity area requiring control on any particular day, divide that product by 1,000, and multiply the quotient by 100 gallons for that day.
- B. The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operation (e.g., meteorological situations, precipitation events, freezing, etc.)
- C. Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating.
- D. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads. The operator(s) shall record a brief description of such events in the same log as the documented watering.
- E. The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

¹ For purposes of this document, Control of Fugitive Emissions means to control particulate matter that is not collected by a capture system and visible emissions to the extent necessary to prevent violations of the air pollution law or regulation. (Note: control of visible emission is not the only factor to consider in protection of ambient air quality.)

For Vehicle Activity Areas around Open Storage Piles:

- 1. Pavement of Stockpile Vehicle Activity Surfaces -
 - A. The operator(s) may pave all or any portion of the vehicle activity areas around the storage piles with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve control of fugitive emissions while the plant is operating.
 - B. Maintenance and/or repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
 - C. The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. <u>Usage of Chemical Dust Suppressants</u> –

- A. The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the vehicle activity areas around the open storage piles. The suppressant will be applied in accordance with the manufacturer's suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
- B. The quantities of the chemical dust suppressant shall be applied, re-applied and/or maintained sufficient to achieve control of fugitive emissions from these areas while the plant is operating.
- C. The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

3. <u>Usage of Documented Watering</u> –

- A. The operator(s) shall control the fugitive emissions from all the vehicle activity areas around the storage piles at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating. (Refer to example for documented watering of haul roads.)
- B. The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operations (e.g., meteorological situations, precipitation events, freezing, etc.)
- C. Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating.
- D. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads. The operator(s) shall record a brief description of such events in the same log as the documented watering.
- E. The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.